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• AMERICAN MAMMOTH AND
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Hereford bulls and registered Shrop-
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DR. H. A. SCHELL'S
EYE WATER
THE BEST
AT ALL DRUGGISTS

IN THE MINES PRELIMINARY WORK BEING RUSHED AT NEW SITE

One Hundred and Seventy-five
Men Employed on Work of
Preparing Site for New
Arizona Copper Co.
Reduction Plant

CONTRACT FOR STEEL WORK LET

Steel Shipments Will Begin to Arrive
About the First of May When
Erection Will Begin.

Work at the new site for the Arizona Copper Company Reduction plant is under way in earnest and from now until the new smelter is ready to be blown in there will be no cessation in the activity manifested and the force will be added to from week to week. In the erection of the new reduction plant the Arizona Copper Company proposes to set a new mark in Arizona for rapid construction and it is estimated now that the latter part of the year 1913, will see everything completed.

During the past week approximately one hundred and seventy-five men have been employed on the new work. Of this number 75 have been grading on the new site, erecting temporary quarters etc., while one hundred men under Contractor Cotey, have been changing the main line of the A. & N. M. a distance of thirty feet to the north, preparatory to enlarging the railroad yards at Smelter. The contract for the steel work to be used in the erection of the new reduction plant has been let to the Kansas City Structural Steel Co. and the first deliveries are promised during the month of May.

Contract for the Roasters for the new plant, of the Herreschoff Air Cooled type, has also been let, likewise an order for a temporary power plant has been placed which will be installed during the next few weeks and will furnish power for the rock crushers and hammer drills.

The smelter stack at the new reduction plant will be a landmark for miles around. It is to be twenty-two feet in diameter and stand 300 feet in the air. An extra height of 50 feet was ordered added to the stack to insure the carrying off of the fumes over the town.

The complete plans for the entire plant are now being completed in the office of C. H. Repath, at Douglas. A bird's eye view of the plant when completed has been sketched and will appear in the Copper Era at an early date.

This week a telephone line is being strung from Clifton to Smelter for company use and the stub train is loaded morning and evening carrying the workmen to and from their work.

With the new plant completed the production of the Arizona Copper Company will probably reach 45,000,000 pounds of copper per annum as compared with 36,000,000 at the present time.

The production for 1912 by the A. C. Co. will probably be about the same as that for 1911. In January the company produced 3,200,000 pounds.

The mines of the A. C. Co. were never in better condition. A great amount of development work was done during 1911, more work being done than in any two previous years and after a careful inspection of the property, Dr. L. D. Ricketts reported to the directors that the ore reserves more than justified the erection of the new reduction plant.

Work of driving the tunnel from the No. 6 mill at Morenci to connect with the Coronado incline, near Metcalf, is expected to be completed this summer and at the same time the capacity of the mill is to be increased from 1,500 tons daily capacity to 2500.

WALKER'S WEEKLY COPPER LETTER.

Expert opinion on the Metal Market and Copper Shares.

Geo. L. Walker, writing under date of February 3, in the Boston Commercial, says:

The Metal Market
Copper is experiencing a slight reaction. At the moment it is weaker and prices fractionally lower. Lake is 14 1-8 to 14 3-8 cents and electrolytic is 14 to 14 1-4 cents a pound. Domestic consumers are again assuming a bearish attitude, evidently forgetting the expense that a similar position on the market a few months ago caused them. It is thought that the war talk may cause some business hesitancy in Germany and Great Britain, and for a time reduce the demand for copper from these countries. On the other hand, it is claimed that all of the European cartridge manufacturers have bought copper heavily of late

and that they will continue buyers for some time to come.

The steadily decreasing cost of generating and distributing power, the multitudinous new uses to which electricity is being put, the cheapness of copper as compared with most other commodities, the neglect to have under development and equipment a sufficient number of new mines to supply the natural future growth of copper consumption, and the fact that some of the older and more important districts apparently have reached the full limit of their productive capacity, are a few of the vital factors in the present situation which lead me to believe that the price of copper will be much higher next year and for at least three years thereafter.

This being a presidential year, domestic consumption may not show a very great increase over that of 1911, and the foreign demand, for other reasons, may remain about stationary. If so, the price of copper will probably continue around 14 cents for some months to come. An increase of 10 per cent in either domestic or foreign consumption, however, would cause the price to advance several cents a pound. No consumer is warranted in taking a bearish attitude on copper.

Such information as I have been able to gather so far leads me to believe that the statistics to be published next week will fail to show that there was any considerable decrease in the world's copper surplus during January. Exports probably were 17,000,000 lbs less than in December. The foreign visible supply decreased 3,837,120 lbs. comparing with a shrinkage of 3,133,760 pounds in December. If a reduction of 5,000,000 pounds or more in the American surplus should be shown, therefore, following the tremendous decreases that have preceded, it would be highly gratifying.

As I have previously stated, the world's copper production will probably show more increase this year than in any other year during this decade. The remarkable strength of the metal, both in prices and statistically, with such a growth of output in sight, should impress consumers. Immediate future years must bring very much higher prices for copper.

COPPER SHARE MARKET

The coppers have resisted the general decline in security prices better than any other group of stocks, notwithstanding the fact that the metal is reactionary and weak at the moment. It is but natural that copper should sell off slightly after a sharp and continuous advance of over two cents a pound. The metal market is not going down, it is simply hesitating in preparation for a further advance. Coppers have made substantial gains, but as yet they have only started. Ahead of us is a bull market in coppers that by comparison will make all preceding ones appear to have been mere rallies.

The coppers are still cheap. Only a few of them have discounted the improvements in the metal market. Net earnings of the established producers are nearly double what they were six months ago, and the resultant increases in dividends have yet to come.

The coppers look high when viewed from the current investment returns. This is due to the fact that their dividends have not yet been changed from a 12 1-4 cent metal market basis, and therefore, the average yield of 15 dividend payers, is only about 5 1-2 per cent on the current selling prices, of their stocks. With 14 1-4 cent copper, however 17 companies, herewith presented are earning more than an average of almost 12 per cent on the present market prices of their stocks.

MR. GALLENTINE'S STRIKE

P. W. Gallentine, late Socialist candidate for governor, has made a strike in a mine owned by him near Globe. The ore is said to be exceedingly rich in silver. We trust that the expectations of Mr. Gallentine will be fully realized; yes, that he will become the richest silver mine owner in the world, because his wealth, in the nature of things, would become the wealth of all. Those who are less energetic than Mr. Gallentine, say nothing of those who are positively indolent, would get their share of it. They would not be punished for their laziness or lack of energy, by a deprivation of their share of the silver.

Other men, like Mr. Carnegie or Mr. Rockefeller, would hoard this wealth for their own and add to it until it should become burdensome. Then they would relieve themselves by doing it back to the public to which it originally belonged, in the guise of libraries, hero medals, educational foundations and other non-negotiable, non-divisible and non-convertible objects.

Not so, Mr. Gallentine. His fellowmen would be found standing about the mouth of the shaft of the Maybelle, receiving equitable and even portions of the silver, with which they could buy their own libraries, with which they could in person endow educational institutions and found hospitals to suit themselves.—Tucson Star.

NEW DISCOVERY IN WARREN

The discovery of rich copper ores at the Junction and Briggs shafts of the Calumet & Arizona Mining company has caused not a little activity in the procuring of claims to the south and west of these locations, or in the direction of Naco Gap, so-called by reason of its being the outlet from Mule Canyon to the southward.

COPPER QUEEN IS WINNER IN TAX SUIT

Has Been Pending In the Courts
For the Past Two Years

DOUGLAS, Ariz., Jan. 31.—In the cases of the Copper Queen Mining company and the Calumet and Arizona mining company vs. Cochise county which involved the question of the 400 per cent raise of taxes on patented mines, as was ordered by the territorial board of equalization in 1908, Associate Judge Doan has rendered a decision at Tombstone in favor of the mining companies.

A temporary injunction was issued in these cases at the time they were filed and the county treasurer was enjoined from collecting the taxes. The cases have been hanging fire since that time and no steps taken in them, as similar cases were filed in Gila and Yavapai counties.

The case from Yavapai county was taken up to the Supreme court and decided in favor of the mining companies, so that the decision in Tombstone is in conformity with that already rendered which held that the raise as made by the territorial board was illegal.

RUMORS OF DENN

The following from Iron Ore, may be classed as interesting, if true:

"Iron Ore is informed that Copper Queen interests probably now have control of the shares of the Denn company, whose property is located at Bisbee, Ariz., and which has been idle for some time because of an exceedingly heavy water flow that was encountered several months ago, or immediately following the raising of the dumps from the 1800 to the 1400-foot level of the Junction shaft of the Calumet and Arizona company. To raise the Denn will mean the pumping of the water on the entire Bisbee copper basin and that will be a pretty stiff contract.

"If our information on the change of stock is correct, C. & A. may join in the cost. The Copper Queen company pays a portion of the pumping of Calumet & Arizona water. It would only be a fair exchange of courtesies were the Calumet & Arizona company to help its neighbor providing the Junction shaft would be drained of its water in the Denn operation."

INCREASES OUTPUT

The policy of increasing the output of the Copper Queen mines in the Warren district is being continued and the prosperity of the camp reflects that policy. Good men when available have been put on steadily and there are now employed by the company in the Bisbee mines more men than at any time since the first decline in the price of the metal when a policy of curtailment of production was undertaken. It is said that one day last month there were put on 65 new men in the mines of the Copper Queen company. The number of men now employed by this company in the district is now close to 2,000.

As was promised last month the December production of the Bisbee mine of the Copper Queen company, was well in advance of that in November and it is said by those in authority that in January the output is to show a still further increase. The tonnage from the local mines, according to present estimates will be something over 25,000 tons of ore.

BIG DEAL AT MIAMI

Another big mining deal was made in this district last week. This deal was a bond and lease taken by L. D. McClure and H. E. Dunn on the Schulze brothers' mining claims, sixteen in all, about five miles from Miami. The property adjoins the Southwestern Miami.

The option price is stated to be in the neighborhood of \$250,000.

Considerable development has been done by the Schulze brothers, it being estimated that there is, more than 2,000 feet of work. Good showings have been made in a number of the workings, silicates, carbonates, native copper and chalcocites having been encountered.

YAVAPAI MINES

Important mine work is now going ahead in Cherry Creek district. The Square Deal Mining and Milling company having resumed operations recently and the Sure Shot group that adjoins is also starting up. Both projects are under the general management of L. N. Wombacher, who made the announcement yesterday to that effect. The first named property is being explored by shaft work and results are encouraging. Mr. Wombacher stated that a good grade of milling ore is being extracted from the 80-foot inclined shaft which is being continued.

AROUND NOGALES

Wednesday evening Mark Lulley came in from the Wandering Jew camp in the Santa Rita mountains, where he is prosecuting work on the Wandering Jew and M. & S. groups of mines. In the tunnel on the M. & S. he has cut into a fine body of high grade lead-silver ore from which he is sacking rock for a shipment. Work is going on in the Jew also, following up an ore development, made in former years. Mark reports both properties looking fine and he is confident that they will turn out great and valuable properties. Mark has shown faith and confidence in the Tyndall district and has put in his time, and money without stint in development of the two properties (groups) named and he deserves a rich reward, which seems in sight.—Nogales Oasis.

GREENE-CANANEA

Is Making Preparations to Increase Its Production 1,000,000 lbs. Monthly

Greene-Cananea is making preparations to increase its production by approximately 1,000,000 pounds monthly. Now that its costs have been gotten down to about nine cents a pound, the company will probably reopen its two idle mines and operate all its furnaces to their full capacity.

There is good reason for the belief that Greene-Cananea is making a splendid profit on the treatment of the Miami concentrates, notwithstanding the contract was taken at a lower price than had been made previously by any smelting company. The method of handling concentrates, devised by Dr. Ricketts, reduces the expense about fifty per cent.

CALUMET & ARIZONA

Report that Company Taking Options on Silver Creek Mines.

Advices from Kingman, Ariz., state that the Calumet & Arizona company is taking options on all the properties in the Silver creek section of San Francisco district, paying cash for the small mining properties and making agreements to purchase the big ones.

It is said that the company is to secure its power from a dam at Bull's Head, the development of that project to be inaugurated at once.

The company is also taking over the water in the Silver creek section and preparing for milling as well as mining.

RAY CONSOLIDATED

Is Steadily Increasing Its Monthly Production of Copper.

Ray Consolidated is steadily increasing its ore output, and also its monthly production of copper. All of

the anticipations of the management are being realized; but the mining of 8,000 tons of ore daily from underground stops is a vast undertaking, and several months more will be required to get the property in shape to supply the full capacity of the concentrator.

The company's operations are already showing good net profits every month, however, and after the new smelter goes into commission the cost per pound of copper will be further reduced about one and a half cents a pound. On reactions Ray Consolidated stock should be bought.

SHANNON IS GOOD STOCK

Shannon is always good stock to own when the price of copper is advancing. With the metal selling at 15 cents this company should earn \$1.75 annually for each share of its stock, which is now selling around \$9 in the market. Recent developments at the Shannon property have disclosed what promises to be a big body of high grade ore.

NEW ENGLAND AND STANDARD

Present Price of Copper Gives Expectation of Early Resumption of Operations.

Since the increase in the price of copper, there has been a general expectation of advances from New York from John J. Erskine Jr., to resume operations at the Standard Mines. General Manager Dudley was in Clifton on Monday from the property and stated that he had, as yet, received no intimation from the officers of the company to begin operations again.

Two weeks ago an abstract attorney from Tombstone, O. Gibson, Esq., spent several days at the Court House making an abstract of the titles to the New England property. The general supposition is that the New England property will eventually be consolidated with the Standard Mines Co. and operations commenced on a large scale.

HUMBOLDT PLANT TO RESUME

PRESCOTT—R. T. Walker, general superintendent of the Consolidated smelters at Humboldt, while in the city yesterday stated that the new additions to the plant were nearing completion and that by about February 15 smelting would be resumed. For the present approximately forty-five tons of ore per day would be treated, and it is probable operations would be conducted in the future on a basis of permanency.

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